

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **14CZ-LD5-39-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35608)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-39-UNV-L835-CD1-U
Description: CRUZE 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

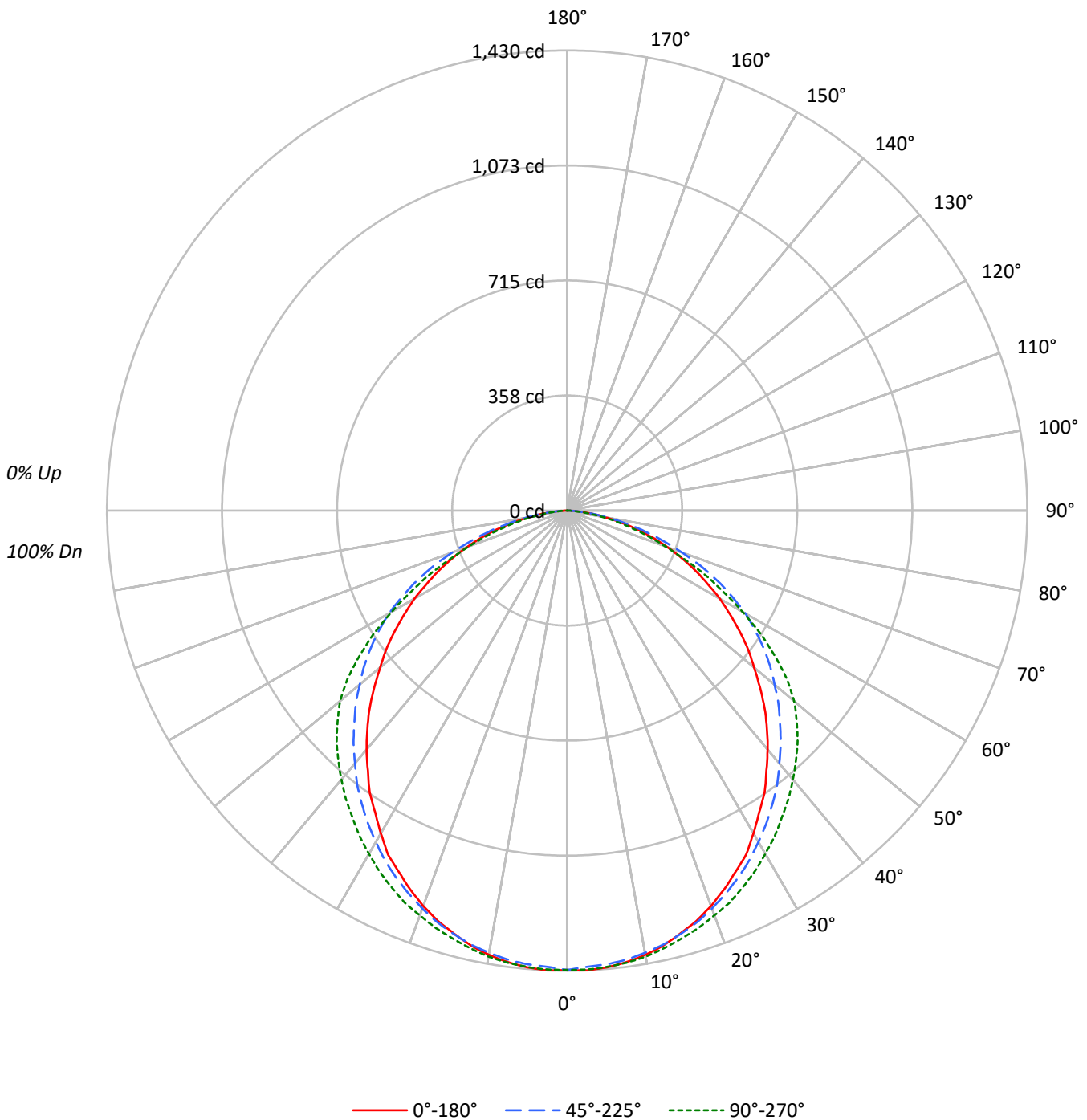
Lumens per Lamp: N/A
Luminaire Lumens: 3959.0 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 35.67
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#
CATALOG NUMBER: 14CZ-LD5-39-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 14CZ-LD5-39-UNV-L835-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70					70			
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59					59			
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34					34			
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30					30			
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3842	3842	3842
5°	3840	3794	3813
10°	3814	3754	3780
15°	3765	3707	3735
20°	3710	3651	3699
25°	3634	3588	3663
30°	3546	3515	3618
35°	3454	3441	3572
40°	3335	3353	3538
45°	3223	3270	3505
50°	3083	3188	3445
55°	2963	3104	3234
60°	2827	2987	2888
65°	2649	2757	2482
70°	2439	2397	1999
75°	2152	1954	1555
80°	1657	1358	1039
85°	1045	582	396



TEST NUMBER: P#

CATALOG NUMBER: 14CZ-LD5-39-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.1	3.4
10°-20°	385.9	9.7
20°-30°	582.2	14.7
30°-40°	698.0	17.6
40°-50°	724.4	18.3
50°-60°	654.0	16.5
60°-70°	476.3	12.0
70°-80°	249.8	6.3
80°-90°	53.4	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1103.1	27.9
0°-40°	1801.1	45.5
0°-60°	3179.5	80.3
0°-90°	3959.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3959.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1428	1428	1428	1428	1428	
5°	1425	1422	1415	1425	1424	135
15°	1360	1360	1362	1378	1376	384
25°	1238	1245	1258	1286	1291	571
35°	1070	1080	1112	1154	1164	667
45°	868	887	935	994	1013	668
55°	654	677	745	790	788	585
65°	438	465	515	491	473	434
75°	226	258	250	216	205	238
85°	44	52	38	29	28	55
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 14CZ-LD5-39-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1427.6	1427.6	1427.6	1427.6	1427.6
2.5°	1430.5	1426.7	1419.1	1428.6	1427.6
5°	1424.8	1422.0	1415.3	1424.8	1423.8
7.5°	1415.3	1413.4	1407.8	1418.2	1417.2
10°	1402.1	1399.2	1395.4	1406.8	1407.8
12.5°	1384.1	1383.1	1381.2	1393.6	1392.6
15°	1360.4	1360.4	1362.3	1377.5	1376.5
17.5°	1336.8	1336.8	1341.5	1358.5	1359.5
20°	1307.4	1309.3	1315.9	1336.8	1338.6
22.5°	1274.3	1276.2	1287.5	1314.0	1318.8
25°	1238.3	1244.9	1258.2	1285.6	1291.3
27.5°	1205.2	1206.1	1226.0	1256.3	1263.9
30°	1157.8	1171.1	1189.1	1224.1	1231.7
32.5°	1111.4	1124.7	1152.1	1190.0	1200.4
35°	1069.8	1080.2	1112.4	1154.0	1163.5
37.5°	1017.7	1034.8	1072.6	1116.2	1129.4
40°	969.4	984.6	1025.3	1074.5	1091.6
42.5°	919.3	936.3	982.7	1035.7	1052.7
45°	868.1	887.1	935.3	994.0	1013.0
47.5°	812.3	835.9	890.9	950.5	967.5
50°	758.3	782.9	841.6	904.1	921.1
52.5°	709.1	730.9	795.2	853.0	860.6
55°	654.2	676.9	745.1	789.6	787.7
57.5°	599.3	624.8	693.0	720.4	712.9
60°	548.1	571.8	640.0	645.7	629.6
62.5°	491.3	518.8	576.5	568.0	548.1
65°	438.3	464.8	515.0	491.3	473.4
67.5°	384.4	412.8	448.7	413.7	392.9
70°	331.3	365.4	378.7	340.8	323.8
72.5°	277.4	313.4	312.4	276.4	262.2
75°	226.3	258.5	249.9	215.8	205.4
77.5°	172.3	204.5	188.4	162.8	153.4
80°	122.1	152.4	131.6	111.7	105.1
82.5°	83.3	101.3	82.4	65.3	62.5
85°	43.5	52.1	37.9	29.3	27.5
87.5°	16.1	15.1	13.3	12.3	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)